

Application No.: 10/594,774
Amendment Dated: March 4, 2011
Reply to Office Action of: December 6, 2010

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Remarks/Arguments:

Claims 1-6 and 9-18 are pending and rejected in the application. No claims have been amended. No new matter has been added.

On page 4, the Official Action rejects claims 1-3 and 16-18 under 35 U.S.C. § 103(a) as being unpatentable over Schrader et al. (US 2002/0166123) in view of Nejime et al. (US 7,272,843) and further in view of Dimitrova et al. (US 2006/0041915). It is respectfully submitted, however, that the claims are patentable over the art of record for at least the reasons set forth below.

Applicants' invention, as recited by claim 1, includes features which are neither disclosed nor suggested by the art of record, namely:

... an accumulated image processing unit connected with a mobile data terminal functioning as a sub reception and display unit, and extracting at least a part of the accumulated program content based on the mode information from the trigger information, restructures the program content extracted based on the mode information, and outputs the restructured program content ...

... the accumulated image processing unit further ... outputs the restructured program content to the mobile data terminal, and displays the restructured program content on the mobile data terminal in a manner that the currently broadcasted original program content received by the reception unit is displayed in parallel on the main display unit.

Claim 1 relates to an image processing unit which restructures a broadcasted program. The received broadcasted program is displayed on the main terminal and then restructured (by the image processing unit) so that it can be simultaneously displayed on a mobile terminal. Support for this feature can be at least found in Figs. 1-4 and furthermore described on pages 15-23 of Applicants' specification. No new matter has been added.

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On pages 7 and 8 of the Official Action, the Examiner states that Dimitrova suggests a system for displaying an original program on a main display and a restructured program on a mobile display. Applicants, however, respectfully disagree with the Examiner.

Fig. 1 of Dimitrova suggests a residential gateway system has a gateway 10 connected to different electronic apparatuses such as DVD players and broadcast receivers. The gateway 10 is also in wireless communication with handheld controller 50 having display 52. In paragraphs 25-30, Dimitrova suggests that the handheld controller 50 is able to access video data such as a currently broadcasted video via gateway 10. Thus, Dimitrova's controller 50 is able to display the broadcasted signal on display 52.

Specifically, in col. 30, Dimitrova suggests that the broadcast signal is able to be displayed on either the main display or the handheld display (not both) ("*once the program is selected, the user may then have the selected video program displayed on the television receiver 14 or displayed on the display screen 52 of the handheld controller 50*"). Thus, Dimitrova's broadcast signal is not reconstructed (i.e., it is the original broadcast signal relayed to the handheld device) and furthermore, it is not displayed simultaneously on both the TV display and the handheld controller display (one or the other is selected to display the broadcasted program). Thus, Applicants respectfully disagree with the Examiner's interpretation of Dimitrova.

Schrader teaches a system for digital video recording. Nejime teaches a system for broadcasting a signal. Neither Schrader, Nejime, nor their combination, however, make up for the deficiencies of Dimitrova.

Applicants' claim 1 is different than the art of record because a broadcast program is reconstructed and then displayed on a mobile display at the same time the original broadcast program is displayed on a main display device ("*... an accumulated image processing unit connected with a mobile data terminal functioning as a sub reception and display unit, and extracting at least a part of the accumulated program content based on the mode information from the trigger information, restructures the program content extracted based on the mode information, and outputs the restructured program content ... the accumulated image processing unit further ...*").

outputs the restructured program content to the mobile data terminal, and displays the restructured program content on the mobile data terminal in a manner that the currently broadcasted original program content received by the reception unit is displayed in parallel on the main display unit").

As shown in Applicants' Fig. 1, main display device 1 has an image processing unit 102 and accumulated image processing unit 104. Image processing unit 102 processes the received broadcast program and displays the original program on display unit 107. Accumulated image processing unit 104 also receives the broadcasted program. Accumulated image processing unit 104, however, reconstructs the broadcast program based on trigger/mode information included in the broadcast. This reconstructed broadcasted program is then transmitted to a mobile terminal 110 where it is displayed on display unit 109. Thus, the original broadcast program is displayed on display unit 107 at the same time as a reconstructed broadcast program is displayed in mobile display unit 109.

For example, main display device 1 may be displaying a broadcasted baseball game. In the broadcasted information, trigger/mode information may be included. The mode information is then extracted by main device 1. The mode information may include different display modes for viewing the baseball game such as a "replay mode" for watching the game from a previous point in time or a "highlight mode" for watching compiled highlights of the baseball game. Main device 1 then determines if the mobile device is set in either of the modes (i.e., the main terminal determines if the mobile terminal is set in the replay mode or the highlight mode). If it is determined that the mobile node is in the replay or the highlight mode, the accumulated image processing unit 104 reconstructs the broadcasted baseball program to provide a separate broadcasts to the mobile terminal.

This configuration allows the main device 1 (via image processing unit 102 and display unit 107) to display the original live broadcasted program while simultaneously allowing the mobile terminal (i.e., via display unit 109) to display a restructured broadcast program (i.e., recorded highlights of the baseball game). Thus, both the original broadcasted image and the restructured broadcasted image are able to be

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displayed in parallel. Accordingly, for the reasons set forth above, claim 1 is patentable over the art of record.

Independent claim 16 includes similar features to claim 1. Thus, independent claim 16 is also patentable over the art of record for at least the reasons set forth above.

Dependent claims 2-3 and 17 include all of the features of the claims from which they depend. Thus, these claims are also patentable over the art of record for at least the reasons set forth above.

On page 29, the Official Action rejects claim 18 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Dimitrova. As discussed, Dimitrova is deficient in suggesting the features in Applicants' claim 1. Thus, since independent claim 18 includes similar features to independent claim 1, independent claim 18 is also patentable over the art of record for at least the reasons set forth above.

On page 3, the Official Action rejects claim 6 under 35 U.S.C. § 102(e) as being anticipated by Dimitrova. Claim 6 includes all of the features of claim 1 from which it depends. Thus, dependent claim 6 is also patentable over the art of record for at least the reasons set forth above.

On page 16, the Official Action rejects claim 4 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Nejime and Dimitrova and further in view of Shteyn (US 2002/0144007). Shteyn is relied upon for suggesting a sub-display device receiving a restructured program content. Shteyn, however, does not make up for the deficiencies of Schrader, Nejime and Dimitrova with respect to the independent claims. Thus, claim 4 is also patentable over the art of record for at least the reasons set forth above.

On page 18, the Official Action rejects claim 5 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Nejime in view of Dimitrova in view of Shteyn and further in view of Kinno et al. (US 2003/0154217). Kinno is relied upon for teaching a management unit that manages terminal information using a terminal ID. Neither Shteyn nor Kinno, however, make up for the deficiencies of Schrader,

Nejime and Dimitrova with respect to the independent claims. Thus, dependent claim 5 is also patentable over the art of record for at least the reasons set forth above.

On page 19, the Official Action rejects claim 9 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Nejime in view of Dimitrova and further in view of Kinno. Kinno is relied upon for index information that includes descriptions of contents of a program. Kinno, however, does not make up for the deficiencies of Schrader, Nejime and Dimitrova with respect to the independent claims. Thus, dependent claim 9 is also patentable over the art of record for at least the reasons set forth above.

On page 20, the Official Action rejects claim 10 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Nejime in view of Dimitrova in view of Shteyn in view of Kinno and further in view of Gardere et al. (US 6,678,332). Gardere is relied upon for trigger information including program ID's for identifying programs. Neither Shteyn, Kinno, nor Gardere, however, make up for the deficiencies of Schrader, Nejime and Dimitrova with respect to the independent claims. Thus, dependent claim 10 is also patentable over the art of record for at least the reasons set forth above.

On page 22, the Official Action rejects claim 11 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Nejime in view of Dimitrova in view of Shteyn in view of Kinno in view of Gardere and further in view of Zander et al. (US 6,360,218). Zander is relied upon for teaching a specific index ID for identifying index information. Neither Shteyn, Kinno, Gardere, nor Zander, however, make up for the deficiencies of Schrader, Nejime and Dimitrova with respect to the independent claims. Thus, dependent claim 11 is also patentable over the art of record for at least the reasons set forth above.

On page 25, the Official Action rejects claims 12 and 15 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Nejime in view of Dimitrova in view of Shteyn in view of Kinno in view of Gardere in view of Zander and further in view of Munetsugu et al. (US 7,134,074). Munetsugu is relied upon for grading index information according to a degree of importance. Neither Shteyn, Kinno, Gardere, Zander, nor Munetsugu, however, make up for the deficiencies of Schrader, Nejime

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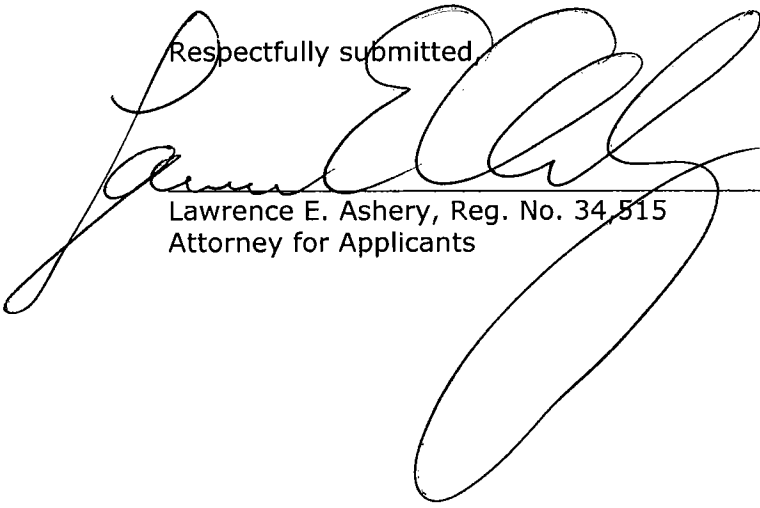
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and Dimitrova with respect to the independent claims. Thus, dependent claims 12 and 15 are also patentable over the art of record for at least the reasons set forth above.

On page 7, the Official Action rejects claims 13 and 14 under 35 U.S.C. § 103(a) as being unpatentable over Schrader in view of Nejime in view of Dimitrova and further in view of Hoshino et al. (US 2004/0249861). Hoshino is relied upon for adding to the restructured program content of an image that is separate from the program content. Hoshino, however, does not make up for the deficiencies of Schrader, Nejime and Dimitrova with respect to the independent claims. Thus, dependent claims 13 and 14 are also patentable over the art of record for at least the reasons set forth above.

In view of the amendments and arguments set forth above, the above-identified application is in condition for allowance which action is respectfully requested.

Respectfully submitted,


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Dated: March 4, 2011

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FP_1194124